

PCT**INTERNATIONAL SEARCH REPORT**
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 85795-74	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CA2004/001843	International filing date (day/month/year) 20 October 2004 (20-10-2004)	(Earliest) Priority date (day/month/year) 20 October 2003 (20-10-2003)	
Applicant THERATECHNOLOGIES INC. ET AL			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.			
This international search report consists of a total of <u>6</u> sheets.			
<p><input checked="" type="checkbox"/> It is also accompanied by a copy of each prior art document cited in this report.</p> <p>1. Basis of the report</p> <p>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).</p> <p>b. <input checked="" type="checkbox"/> With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.</p> <p>2. <input checked="" type="checkbox"/> Certain claims were found unsearchable (See Box II).</p> <p>3. <input type="checkbox"/> Unity of invention is lacking (See Box III).</p> <p>4. With regard to the title.</p> <p><input type="checkbox"/> the text is approved as submitted by the applicant.</p> <p><input checked="" type="checkbox"/> the text has been established by this Authority to read as follows :</p> <p style="padding-left: 2em;">Use of growth hormone releasing factor analogs in treating patients suffering from wasting.</p> <p>5. With regard to the abstract.</p> <p><input type="checkbox"/> the text is approved as submitted by the applicant.</p> <p><input checked="" type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.</p> <p>6. With regard to the drawings,</p> <p>a. The figure of the drawings to be published with the abstract is Figure No.</p> <p><input type="checkbox"/> as suggested by the applicant.</p> <p><input type="checkbox"/> As selected by this authority, because the applicant failed to suggest a figure.</p> <p><input type="checkbox"/> As selected by this Authority, because this figure better characterizes the invention.</p> <p>b. <input checked="" type="checkbox"/> None of the figures is to be published with the abstract.</p>			

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001843A. CLASSIFICATION OF SUBJECT MATTER
Int; A61K 38/25; A61P 21/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Int; A61K 38/25; A61P 21/00Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Canadian Patent Database; Delphion; PubMed; Dgene; Keywords: growth hormone releasing hormone, GHRH, growth hormone releasing factor, GRF, growth hormone, GH, and secretagogue, analogs and peptides of growth hormone, hydrophobic, muscle wasting, cachexia, somatotropin

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CA2367461 BRISTOL-MYERS SQUIBB COMPANY, (Swartz SG et al.) 21 September 2000 claims 20-22 and 25	1, 8-11, 13-17, 22-25, 32-35, 37-41, 46, 49 and 74
Y	whole document	1-80
X	CA2357853 PFIZER PRODUCTS INC, (Fryburg DA) 28 March 2002 claims 1-11, and 25	1, 8-11, 22-25, 32-35, 46-50, 57-60, 62, 63 and 71-74
Y	whole document	1-80
Y	US6458764 THERATECHNOLOGIES INC, (Gravel D et al.) 01 October 2002 whole document	1-80

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

- * Special categories of cited documents :
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "X" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "Y" document member of the same patent family
- "&"

Date of the actual completion of the international-type search
14 January 2005 (14-01-2005)Date of mailing of the international-type search report
02 March 2005 (02-03-2005)Name and mailing address of the ISA/CA
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9
Facsimile No. 1-819-953-9358Authorized officer
Nicole Harris (819) 997-4541

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/CA2004/001843**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. Claims Nos. :
because they relate to subject matter not required to be searched by this Authority; namely:
Remarks: Claims 1-48 and 50-73 are considered to be directed towards methods of medical treatment of a human or animal which the authority is not required to search under Rule 39.1(iv) of the PCT. However, a search has been established based on the use of the compounds/compositions.
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2367461	21-09-2000	AU3512500 A BG105843 A BR0008937 A CN1344160T T CZ20013254 A3 EE200100479 A EP1175213 A2 HU0201787 A2 IL144592D D0 JP2002539141T T NO20014407 A SK12272001 A3 TR200102780T T2 US6518292 B1 US6525203 B1 US6660760 B1 US2004002525 A1 US2004029935 A1 US2004072881 A1 WO0054729 A2 ZA200106854 A	04-10-2000 31-05-2002 24-09-2002 10-04-2002 12-06-2002 16-12-2002 30-01-2002 28-09-2002 23-05-2002 19-11-2002 08-11-2001 08-10-2002 21-08-2002 11-02-2003 25-02-2003 09-12-2003 01-01-2004 12-02-2004 15-04-2004 21-09-2000 20-11-2002
CA2357853	28-03-2002	AU7613001 A EP1192943 A2 HU0103941 A2 IL145540D D0 JP2002145801 A US2002151551 A1 ZA200107905 A	11-04-2002 03-04-2002 29-06-2002 30-06-2002 22-05-2002 17-10-2002 29-04-2003
US6458764	01-10-2002	AT204881T T AU697119 B2 AU755852 B2 AU5500799 A AU5683396 A BR9608799 A BR9913515 A CA2222068 A1 CA2342070 A1 DE1109909T T1 DE69614849D D1 DE69614849T T2 DK828758T T3 EP0828758 A1 EP1109909 A2 ES2163020T T3 ES2164626T T1 JP3576170B2 B2 JP2002524472T T PT828758T T US5861379 A US5939386 A US6020311 A US2004171534 A1 WO0014236 A2 WO9637514 A1	15-09-2001 24-09-1998 19-12-2002 27-03-2000 11-12-1996 07-12-1999 05-06-2001 28-11-1996 16-03-2000 23-05-2002 04-10-2001 16-05-2002 07-01-2002 18-03-1998 27-06-2001 16-01-2002 01-03-2002 13-10-2004 06-08-2002 28-02-2002 19-01-1999 17-08-1999 01-02-2000 02-09-2004 16-03-2000 28-11-1996

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 85795-74	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/CA2004/001843	International filing date (day/month/year) 20 October 2004 (20-10-2004)	(Earliest) Priority date (day/month/year) 20 October 2003 (20-10-2003)
Applicant THERATECHNOLOGIES INC. ET AL		
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.		
This international search report consists of a total of <u>6</u> sheets.		
<p><input checked="" type="checkbox"/> It is also accompanied by a copy of each prior art document cited in this report.</p> <p>1. Basis of the report</p> <p>a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).</p> <p>b. <input checked="" type="checkbox"/> With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.</p> <p>2. <input checked="" type="checkbox"/> Certain claims were found unsearchable (See Box II).</p> <p>3. <input type="checkbox"/> Unity of invention is lacking (See Box III).</p> <p>4. With regard to the title.</p> <p><input type="checkbox"/> the text is approved as submitted by the applicant.</p> <p><input checked="" type="checkbox"/> the text has been established by this Authority to read as follows :</p> <p style="padding-left: 40px;">Use of growth hormone releasing factor analogs in treating patients suffering from wasting.</p> <p>5. With regard to the abstract.</p> <p><input type="checkbox"/> the text is approved as submitted by the applicant.</p> <p><input checked="" type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.</p> <p>6. With regard to the drawings,</p> <p>a. The figure of the drawings to be published with the abstract is Figure No. <u>1</u>.</p> <p><input type="checkbox"/> as suggested by the applicant.</p> <p><input type="checkbox"/> As selected by this authority, because the applicant failed to suggest a figure.</p> <p><input type="checkbox"/> As selected by this Authority, because this figure better characterizes the invention.</p> <p>b. <input checked="" type="checkbox"/> None of the figures is to be published with the abstract.</p>		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001843

Box No. I

Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - [X] a sequence listing
 - [] table(s) related to the sequence listing
 - b. format of material
 - [X] in written format
 - [X] in computer readable form
 - c. time of filing/furnishing
 - [X] contained in the international application as filed
 - [X] filed together with the international application in computer readable form
 - [] furnished subsequently to this Authority for the purposes of search
2. [] In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

SEQ ID NO:1 of the sequence listing does not comply with the standard provided for in Annex C and Annex C-bis of the Administrative Instructions. The use of "Xaa" may define more than one amino acid in a single position, but rather than using "Xaa" the applicant should positively define all amino acids and specify each "variant" as having one or more substitutions at a designated position. Further, the substitution of "Xaa" must not alter the length of said sequence. Such is not the case with the substitution at position 30, where "Xaa" is an amino acid sequence of 1 up to 15 residues or is a bond.

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/CA2004/001843**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. Claims Nos. :
because they relate to subject matter not required to be searched by this Authority; namely:
Remarks: Claims 1-48 and 50-73 are considered to be directed towards methods of medical treatment of a human or animal which the authority is not required to search under Rule 39.1(iv) of the PCT. However, a search has been established based on the use of the compounds/compositions.
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. Claims Nos. :
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/CA2004/001843**Box IV****Text of the abstract (Continuation of item 5 of first sheet)**

The present invention provides methods for using growth hormone releasing factor analogs of the formula (A), X-GRF Peptide, and pharmaceutically acceptable salts thereof, for increasing muscle function in a subject. Also disclosed herein are corresponding methods, packages and compositions.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001843

A. CLASSIFICATION OF SUBJECT MATTER
Int; A61K 38/25; A61P 21/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Int; A61K 38/25; A61P 21/00

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
Canadian Patent Database; Delphion; PubMed; Dgene; Keywords: growth hormone releasing hormone, GHRH, growth hormone releasing factor, GRF, growth hormone, GH, and secretagogue, analogs and peptides of growth hormone, hydrophobic, muscle wasting, cachexia, somatotropin

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CA2367461 BRISTOL-MYERS SQUIBB COMPANY, (Swartz SG et al.) 21 September 2000 claims 20-22 and 25	1, 8-11, 13-17, 22-25, 32-35, 37-41, 46, 49 and 74
Y	whole document	1-80
X	CA2357853 PFIZER PRODUCTS INC, (Fryburg DA) 28 March 2002 claims 1-11, and 25	1, 8-11, 22-25, 32-35, 46-50, 57-60, 62, 63 and 71-74
Y	whole document	1-80
Y	US6458764 THERATECHNOLOGIES INC, (Gravel D et al.) 01 October 2002 whole document	1-80

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

- * Special categories of cited documents :
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international-type search
14 January 2005 (14-01-2005)

Date of mailing of the international-type search report
02 March 2005 (02-03-2005)

Name and mailing address of the ISA/CA
Commissioner of Patents
Canadian Patent Office - PCT
Ottawa/Gatineau K1A 0C9

Authorized officer
Nicole Harris (819) 997-4541

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2004/001843

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2367461	21-09-2000	AU3512500 A BG105843 A BR0008937 A CN1344160T T CZ20013254 A3 EE200100479 A EP1175213 A2 HU0201787 A2 IL144592D D0 JP2002539141T T NO20014407 A SK12272001 A3 TR200102780T T2 US6518292 B1 US6525203 B1 US6660760 B1 US2004002525 A1 US2004029935 A1 US2004072881 A1 WO0054729 A2 ZA200106854 A	04-10-2000 31-05-2002 24-09-2002 10-04-2002 12-06-2002 16-12-2002 30-01-2002 28-09-2002 23-05-2002 19-11-2002 08-11-2001 08-10-2002 21-08-2002 11-02-2003 25-02-2003 09-12-2003 01-01-2004 12-02-2004 15-04-2004 21-09-2000 20-11-2002
CA2357853	28-03-2002	AU7613001 A EP1192943 A2 HU0103941 A2 IL145540D D0 JP2002145801 A US2002151551 A1 ZA200107905 A	11-04-2002 03-04-2002 29-06-2002 30-06-2002 22-05-2002 17-10-2002 29-04-2003
US6458764	01-10-2002	AT204881TT T AU697119 B2 AU755852 B2 AU5500799 A AU5683396 A BR9608799 A BR9913515 A CA2222068 A1 CA2342070 A1 DE1109909T T1 DE69614849D D1 DE69614849T T2 DK828758T T3 EP0828758 A1 EP1109909 A2 ES2163020T T3 ES2164626T T1 JP3576170B2 B2 JP2002524472T T PT828758T T US5861379 A US5939386 A US6020311 A US2004171534 A1 WO0014236 A2 WO9637514 A1	15-09-2001 24-09-1998 19-12-2002 27-03-2000 11-12-1996 07-12-1999 05-06-2001 28-11-1996 16-03-2000 23-05-2002 04-10-2001 16-05-2002 07-01-2002 18-03-1998 27-06-2001 16-01-2002 01-03-2002 13-10-2004 06-08-2002 28-02-2002 19-01-1999 17-08-1999 01-02-2000 02-09-2004 16-03-2000 28-11-1996